## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of : Wu, J-P et al	) Art Unit:	1624
U.S. Appln. No. : To Be Accorded	) Examiner:	Sudhaker B. PATEL
Confirmation No.: To Be Accorded	·	
U.S. Filing Date : 09/25/2003		
Title of Invention: Small Molecules Use	ful In the Treatment of	Inflammatory Disease
Attny. Docket No.: 9/162-2-D1		·
Mail Stop Patent Application		
Commissioner for Patents		
P. O. Box 1450		
Alexandria, VA 22313-1450		
September 25, 2003		
TRANSMITTAL LETTER FOR IN	FORMATION DISCI	OSURE STATEMENT
Sir:		
In accordance with the duty of disclosure the U.S. Patent and Trademark Office of t PTO-1449 form and which the Examiner the above-identified application. Copies of filed in US Application No. 10/195,973, f Docket No. 9/162-1-C1) and US Applicat J-P et al (Attorney Docket No. 9/162).	he documents listed her may deem relevant to pe of the citations listed on iled on July 16, 2002, V	rein and on the attached attentability of the claims of the PTO-1449 form are Vu, J-P et al (Attorney
1.97(b). This Statement is b date of a national application other than a §1.53 (d); ii) within three (3) months of the 37 C.F.R. §1.491 in an international appli on the merits; or iv) before the mailing of continued examination under 37 C.F.R. §	continued prosecution and date of entry of the nation; iii) before the man a first Office action after	ational stage as set forth in ailing of a first Office action
1.97(c). This Statement is b C.F.R. §1.97(b), but before the mailing da notice of allowance under 37 C.F.R. §1.33 prosecution in the application. This State	11, or iii) an action that	nder 37 C.F.R. §1.113, ii) a otherwise closes
A statement as specified in	n 37 C.F.R. §1.97(e) [se	ee below]; or

		The fee set forth in 37 C.F.R. §1.17(p).
		The Commissioner is hereby authorized to charge payment of the \$180.00 fee set forth in 37 C.F.R. §1.17(p) to Deposit Account No. 02-2955.
	ent as s	This Statement is being filed after the period specified in 37 C.F.R. on or before payment of the issue fee. This Statement is accompanied by a pecified in 37 C.F.R. §1.97(e) [see below] and the fee set forth in 37 C.F.R.
	1.97(e	).
	counte	Each item of information contained in the instant information disclosure tent was first cited in any communication from a foreign patent office in a expart foreign application not more than three (3) months prior to the filing of stant information disclosure statement; or
	foreign makin inform C.F.R.	No item of information contained in the instant information disclosure tent was cited in a communication from a foreign patent office in a counterpart in application, and, to the knowledge of the person signing this certification after greasonable inquiry, no item of information contained in the instant nation disclosure statement was known to any individual designated in 37 at \$1.56(c) more than three (3) months prior to the filing of the instant nation disclosure statement.
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counte n sect	erpart aption 1.50	d). Each item of information contained in the accompanying information tement was cited in a communication from a foreign patent office in a oplication, which communication was not received by any individual designated b(c) more than thirty (30) days prior to the filing of the accompanying isclosure statement.

The Commissioner is hereby authorized to charge payment of any additional filing fees required under 37 C.F.R. §1.16 and any patent application processing fees under 37 C.F.R. §1.17, or credit any overpayment of same, to Deposit Account No. 02-2955.

Triplicate copies of this form are enclosed.

Respectfully submitted,

Philip I. Datlow

Attorney for Applicant(s)

Reg. No. 41,482

Patent Department Boehringer Ingelheim Corp. 900 Ridgebury Road, P.O. Box 368 Ridgefield, CT 06877

Tel: (203) 798-4542 Date: September 25, 2003 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO			SOURS DIE TEUDITEOUT	Complete if Known				
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. 11	NFORMATION DISC	CLO	SURE	Filing Date	09/25/2003			
	TATEMENT BY AF			First Named Inventor	Jiang-Ping WU			
(Use as many sheets as necessary)				Art Unit	1624			
				Examiner Name	Sudhaker B. PATEL			
Sheet	1	of	4	Attorney Docket Number	9/162-2-D1			

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (F known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		<sup>US-</sup> 3,668,217	06/06/1972	Fujinami, et al	
		<sup>∪S-</sup> 4,944,791	07/31/1990	Schroeder, et al	
	-	<sup>US-</sup> 3,741,981	06/26/1973	Fujinami, et al	
		<sup>US-</sup> 5,334,606	08/02/1994	MacLeod	
		<sup>US-</sup> 5,750,553	05/12/1998	Claussner, et al	
		<sup>US-</sup> 5,464,856	11/07/1995	Cetenko, et al	
-		<sup>US-</sup> 5,208,250	05/04/1993	Cetenko, et al	
		<sup>US-</sup> 5,306,822	04/26/1994	Cetenko, et al	
		<sup>US-</sup> 3,846,441	11/05/1974	Mine, et al	
	Ī -	<sup>US-</sup> 4,911,748	03/27/1990	Prisbylla	
		<sup>US-</sup> 4,977,270	12/11/1990	Wee	
		<sup>US-</sup> 6,492,408	12/2002	Wu, et al	
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	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	т6			
muais	170.	Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (# known)	WIIVI-DD-1111	Applicant of Cited Document	or Relevant Figures Appear	Ľ			
		EP 0 091 596 A1	10/19/1983	Celemerck					
		DE 19 58 183 A1	06/04/1970	Sumitomo					
		DE 19 40 032 A1	03/12/1970	Sumitomo					
		EP 0 545 478 A1	06/09/1993	Merck					
		WO 95 18794 A1	07/13/1995	Roussel					

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Complete if Known Substitute for form 1449A/PTO Application Number To Be Accorded Filing Date INFORMATION DISCLOSURE 09/25/2003 First Named Inventor Jiang-Ping WU STATEMENT BY APPLICANT Art Unit 1624 Examiner Name Sudhaker B. PATEL (Use as many sheets as necessary)

Attorney Docket Number 9/162-2-D1 4

Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
nitials*	No.1	Number-Kind Code <sup>2 (f known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
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FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	T <sup>6</sup>	
		Country Code <sup>3</sup> 'Number <sup>4</sup> 'Kind Code <sup>5</sup> (# known)			or Relevant Figures Appear		
		EP 0 343 643 A1	11/29/1989	Warner Lambert			
		DE 21 00 800 A1	07/15/1971	Sumitomo			
	<b></b>	JP 51-88631	08/03/1976	Sumitomo			
•		WO 98 39303 A1	09/11/1998	Bl Pharmaceuticals			
•••••••	Ī	WO 99 11258 A1	03/11/1999	Novartis			

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number To Be Accorded

Filing Date 09/25/2003

First Named Inventor Jiang-Ping WU

Art Unit 1624

Examiner Name Sudhaker B. PATEL

Attorney Docket Number 9/162, 2-D1

(Use as many sheets as necessary)
Sheet 3 of 4 Attorney Docket Number 9/162-2-D1

Examiner	Cite No.1	Document Number	U. S. PATENT D Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant
Initials*	No.¹	Number-Kind Code <sup>2 (# known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
		US-			
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	FOREIGN PATENT DOCUMENTS							
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines,	-6		
Initials*	No.¹	Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Intry Code <sup>3</sup> Number <sup>4</sup> 'Kind Code <sup>5</sup> ( <i>If known</i> )		Where Relevant Passages or Relevant Figures Appear	Ľ		
		WO 99 49856 A2	10/07/1999	Genentech				
		JP 04,273,877	09/1992	Masumori, et al				
		WO 98 39303	09/1998	Kelly, et al				
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				Application Number	To Be Accorded		
IN	<b>FORMATION</b>	<b>DISCLO</b>	SURE	Filing Date	09/25/2003		
STATEMENT BY APPLICANT (Use as many sheets as necessary)				First Named Inventor	Jiang-Ping WU		
				Art Unit	1624		
				Examiner Name	Sudhaker B. PATEL		
She	eet 4	of	4	Attorney Docket Number	9/162-2-D1		

	NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T			
		TAKAYAMA, et al; "Quantitative Structure-activity Relationships of Antifungal 1-(3,5-Dichlorophenyl)-2,5-pyrrolidinediones and 3-(3,5-Diochlorophenyl)-2,4-oxazolidinediones"; Agric. Biol. Chem. 1982, 46, 2755-8				
•		LI, et al; "Examination of the Interrelationship Between Aliphatic Group Dipole moment and Polar Substituent Constants" J. Pharm. Sci. 1984; 73, 553-8				
		HALIM, et al; "3-[2-(3,5-Dimethylpyrazolyl)} Succinic Anhydride: Synthone for the Synthesis of Some Heterocycles with Potential Pharmaceutical Activity"; Monatshefte fuer Chemie, 1994, 125 1437-1442				
		Database CA on STN, Chemical Abstracts, (Columbus, OH, USA) No. 128:204801, HOLLINSHEAD,S. et al, "Combinatorial process for preparing substituted pyrrolidine libraries", Abstract WO 98 08813, March 1998				
		Database CA on STN, Chemical Abstracts, (Columbus, OH, USA) No. 124:145896, DREWES, M. et al, "Preparation of 4-(heterocyclo)-2-(sulfonamido) benzonitrile selective herbicides", abstract DE4414568, November 1995				
		MUSZA, L. L., et al, "Potent New Cell Adhesion Inhibitory Compounds from the Root of Trichilia rubra"; Tetrahedron, 1994, 50, 11369-11378				
		BOSCHELLI, D. H., et al; "3-Alkoxybenzo[b]thiophene-2-carboxamides as Inhibitors of Neutrophil-Endothelial Cell Adhesion"; J. Med. Chem, 1994., 37, 717				
		BOSCHELLI, D. H., et al; "Inhibition of E-Selectin-, ICAM-1-, and VCAM-1-Mediated Cell Adhesion by Benzo[b]thiophene-, Benzofuran-, Indole-, and Naphthalene-2-carboxamides: Identification of PD 144795 as an Antiinflammatory Agent": J. Med. Chem., 1995, 38, 4597-4614				
		SANFILIPPO, P. J., et al; "Novel Thiazole Based Heterocycles as Inhibitors of LFA-1/ICAM-1 Mediated Cell Adhesion"; J. Med. Chem. 1995, 38, 1057-1059				

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l	Signature		Considered		_

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